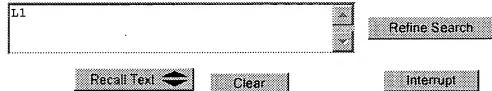
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(bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)	4

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L2 (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)	0	<u>L2</u>
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L1</u> (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)	. 4	<u>L1</u>

Search Results -

Terms	Documents
arbitration and (grant\$3 same concurrent same latenc\$3)	10

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DB=PGPB, USPT, USOC; PLUR=YES; OP=OR		result set
<u>L3</u> arbitration and (grant\$3 same concurrent same latenc\$3)	10	<u>L3</u>
DB= $EPAB$, $JPAB$, $DWPI$, $TDBD$; $PLUR$ = YES ; OP = OR		
<u>L2</u> (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)) 0	<u>L2</u>
DB=PGPB, USPT, USOC; PLUR=YES; OP=OR		
<u>L1</u> (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)) 4	<u>L1</u>

Search Results -

Terms	Documents
arbitration and (grant\$3 same concurrent same latenc\$3)	0

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Refine Search

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<u>L4</u> arbitration and (grant\$3 same concurrent same latenc\$3)	0	<u>L4</u>
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L3</u> arbitration and (grant\$3 same concurrent same latenc\$3)	10	<u>L3</u>
DB=EPAB, $JPAB$, $DWPI$, $TDBD$; $PLUR=YES$; $OP=OR$		
L2 (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)) 0	<u>L2</u>
DB=PGPB, USPT, USOC; PLUR=YES; OP=OR		
L1 (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3)) 4	<u>L1</u>

Search Results -

Terms	Documents
(grant\$3 same concurrent same latenc\$3)	11

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Refine Search

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DB=PGPB, USPT, USOC; PLUR=YES; OP=OR		
<u>L5</u> (grant\$3 same concurrent same latenc\$3)	11	<u>L5</u>
$DB=EPAB,JPAB,DWPI,TDBD;\ PLUR=YES;\ OP=OR$		
<u>L4</u> arbitration and (grant\$3 same concurrent same latenc\$3)	0	<u>L4</u>
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L3</u> arbitration and (grant\$3 same concurrent same latenc\$3)	10	<u>L3</u>
DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
<u>L2</u> (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3) 0	<u>L2</u>
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
<u>L1</u> (bus near3 arbitration) and (grant\$3 same concurrent same latenc\$3) 4	<u>L1</u>



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Ruibing Lu; Cheng-Koh Koh;

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9-13 Nov. 2003 Page(s):8 - 12

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SAMBA-bus: A high performance bus architecture for system-on-chips

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and up to 15 times reduction in the average communication latency. In addition, the performance of SAMBA-bus architecture is affected only compared with a traditional bus architecture, the SAMBA-bus architecture can have up to 3.5 times improvement in the effective bandwidth, slightly by arbitration latency, because bus transactions can be performed without waiting for the bus access grant from the arbiter. This feature is desirable in SoC designs with large numbers of modules and long communication delay between modules and the bus arbiter. transactions can be performed simultaneously with only a single bus access grant from the bus arbiter. Experimental results show that, A high performance communication architecture, SAMBA-bus, is proposed in this paper. In SAMBA-bus, multiple compatible bus

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